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NOTICE OF ALLOWANCE AND FEE(S) DUE

27765

7590

01/02/2009

NORTH AMERICA INTELLECTUAL PROPERTY CORPORATION P.O. BOX 506 MERRIFIELD, VA 22116 EXAMINER

BECK, ALEXANDER S

ART UNIT PAPER NUMBER

2629

DATE MAILED: 01/02/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/605,791	10/27/2003	Li-Yi Chen	CMOP0025USA	2790

TITLE OF INVENTION: A LIQUID CRYSTAL DISPLAY PANEL INCLUDING MULTI SCANNING BANDS

	APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
•	nonprovisional	NO	\$1510	\$300	\$0	\$1810	04/02/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notificat	ed below or directed oth	ng the Patent, advance of herwise in Block 1, by (orders and notification of a (a) specifying a new corre	maintenance fees wi spondence address;	ll be n and/or	nailed to the current (b) indicating a separ	correspondence address as ate "FEE ADDRESS" for
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							(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTOR	NEY DOCKET NO.	CONFIRMATION NO.
10/605,791	10/27/2003		Li-Yi Chen	•	CN	MOP0025USA	2790
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	04/02/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS]			
BECK, ALE	XANDER S	2629	345-087000	•			
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Unl	ess an assignee is identi h in 37 CFR 3.11. Comp	'Indication form ed. Use of a Customer A TO BE PRINTED ON ified below, no assignee	(1) the names of up to or agents OR, alternatic (2) the name of a single registered attorney or a registered patent attorney or the part of the part o	vely, le firm (having as a agent) and the name printed. pe) patent. If an assigne assignment.	membe s of up o name	ra 2to eis 3entified below, the do	cument has been filed for
Please check the appropri	iate assignee category or	categories (will not be p	printed on the patent):	Individual 🖵 Cor	poratio	on or other private gro	up entity 🗖 Government
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			☐ A check is enclosed. ☐ Payment by credit car ☐ The Director is hereby	Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).			
5. Change in Entity Stat a. Applicant claims	tus (from status indicated s SMALL ENTITY statu	,	b. Applicant is no lon	ger claiming SMAL	L ENT:	1TY status. See 37 CF	R 1.27(g)(2).
NOTE: The Issue Fee and interest as shown by the r	d Publication Fee (if requeecords of the United Sta	uired) will not be accepte tes Patent and Trademar	ed from anyone other than t k Office.	the applicant; a regis	tered at	ttorney or agent; or the	e assignee or other party in
Authorized Signature				Date			
Typed or printed name				Registration No is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process)			
an application. Confident submitting the completed this form and/or suggesti	tiality is governed by 35 I application form to the ons for reducing this bu	U.S.C. 122 and 37 CFR USPTO. Time will var den. should be sent to the	ion is required to obtain or r. 1.14. This collection is esty depending upon the indivine Chief Information Office COMPLETED FORMS T	timated to take 12 m vidual case. Any cor er. U.S. Patent and T	inutes nments Tradema	to complete, including on the amount of tin ark Office, U.S. Depa	g gathering, preparing, and be you require to complete rtment of Commerce, P.O.

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NORTH AMERI	ICA INTELLECTUA	BECK, ALEXANDER S			
P.O. BOX 506		ART UNIT	PAPER NUMBER		
MERRIFIELD, VA	A 22116		2629		
			DATE MAILED: 01/02/2009		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 522 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 522 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
	10/605,791	CHEN ET AL.			
Notice of Allowability	Examiner	Art Unit			
	ALEXANDER S. BECK	2629			
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in this a or other appropriate communication (GHTS. This application is subject and MPEP 1308.	pplication. If not included on will be mailed in due course. THIS			
1. This communication is responsive to <u>communications filed</u>	<u>1 December 2008</u> .				
2. \boxtimes The allowed claim(s) is/are <u>1,3-7 and 9-22</u> .					
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No.				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		y complying with the requirements			
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 					
 5. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date (learning indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the deponsion of the deponsion of	con's Patent Drawing Review (PTC). s Amendment / Comment or in the .84(c)) should be written on the draw he header according to 37 CFR 1.12 sit of BIOLOGICAL MATERIAL	Office action of vings in the front (not the back) of 1(d) must be submitted. Note the			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit	5. ☐ Notice of Informal 6. ☐ Interview Summar Paper No./Mail D 7. ☐ Examiner's Amen	Patent Application ry (PTO-413), pate			
of Biological Material	9.	9.			

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on Dec. 1, 2008, has been entered. Claims 1, 3-7 and 9-22 are currently pending and an Office action on the merits follows.

Allowable Subject Matter

- 2. Claims 1, 3-7 and 9-22 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

As to claim 1, the prior art of record fails to teach or suggest a display panel comprising:

a first scanning band, a second scanning band and a third scanning band positioned between the first scanning band and the second scanning band, and each scanning band including a plurality of parallel scanning lines, wherein the scanning lines of the first scanning band and the second scanning band scan along a first scanning direction and a second scanning direction according to a first scanning signal;

a plurality of parallel data lines extending across the first scanning band, the second scanning band and the third scanning band, the data lines and the scanning lines being perpendicular to each other, and each of the data lines including a disconnecting point positioned in the third scanning band with a mosaic distribution;

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a plurality of pixel units, each pixel unit being positioned around an intersection point of one scanning line and one data line and being electrically controlled by both the scanning line and the data line; and

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a first data driver and a second data driver electrically connected to the data lines for inputting image data into each pixel unit, such that when scanning the first scanning band and the second scanning band simultaneously, the first data driver inputs the corresponding image data into the first scanning band and the second data driver inputs the corresponding image data into the second scanning band, and when the scanning lines of the third scanning band scan in sequence along a third scanning direction according to a second scanning signal sequential to the simultaneous scanning of the first and second bands;

wherein the display of the pixel units is controlled by simultaneously supplying with the same image data by the first data driver and the second data driver whether the pixel units in the third scanning band are positioned above or below the disconnecting point, as claimed.

As to claim 15, the prior art of record fails to teach or suggest a driving method for a liquid crystal display panel including a first scanning band, a second scanning band, a third scanning band positioned between the first scanning band and the second scanning band, a plurality of scanning lines, a plurality of data lines including a disconnecting point positioned in the third scanning band with a mosaic distribution, a first data driver and a second data driver, and a plurality of pixel units positioned around an intersection point of one scanning line and one data line, comprising the steps of:

scanning the first scanning band and the second scanning band simultaneously according to a first direction and a second direction respectively based on a first scanning signal;

inputting a corresponding image data from the first data driver into each pixel unit positioned in the first scanning band via the data lines;

inputting a corresponding image data from the second data driver into each pixel unit positioned in the second scanning band via the data lines;

scanning the third scanning band in sequence according to a third direction based on a second scanning signal sequential to the simultaneous scanning of the first and second bands; and

controlling the display of the pixel units by simultaneously supplying with the same image data by the first data driver and the second data driver whether the pixel units in the third scanning band are positioned above or below the disconnecting points, as claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALEXANDER S. BECK whose telephone number is (571)272-7765. The examiner can normally be reached on M-F, 8AM-5PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sumati Lefkowitz can be reached on (571) 272-3638. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Sumati Lefkowitz/ Supervisory Patent Examiner, Art Unit 2629

asb